

## Product datasheet for **MG203623**

### Tiprl (NM\_145513) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tiprl (NM_145513) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tiprl
Synonyms:	1810011K17Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203623 representing NM_145513 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGATCCACGGCTTTCAGAGCAGCCACCAGGACTTCTCCTTCGGGCCTTGGAAGCTGACGGCGTCCA  
AGACCCACATCATGAAGCTGCGGATGTGGAAAAGTTAGCTGACGAGCTGCACATGCCATCCCTCCCTGA  
AATGATGTTTGGAGACAACGTTCTAAGGATCCAGCATGGCTCTGGCTTTGGAATAGAGTTCAATGCTACG  
GACGCACTGAGATGTGTGAACAACATCAGGGCATGCTCAAAGTAGCTTGTGCTGAAGAGTGGCAGGAAA  
GTAGGACGGAGGGCGAACACTCCAAAGAAGTTATTAACCATATGACTGGACCTATACAACAGATTATAA  
AGGAACGCTGCTTGGAGAATCTCTTAAGTTAAAGTTGTACCTACAACAGATCATATAGATACAGAAAAA  
TTGAAAGCCAGAGAACAGATTAAATTTTTGAAGAAGTTCCTGTTTGAAGATGAATTGCATGATCATG  
GTGTTTCCAGCCTGAGTGTGAAAATTAGAGTGATGCCTTCCAGCTTCTTCTGCTGTTGCGGTTTTCT  
GAGAATTGATGGGGTGCTCATCAGAATGAATGACACGAGGCTTACCATGAGGCTGACAAGACCTACATG  
TTACGAGAATATACATCCAGAGAGAGCAAAATTGCTAATTTAATGCATGTTCCACCTTCCCTTCCACGG  
AACCTAATGAAATATCACAATTTACCAATTAAGGAAGCAGTTTGTGAGAAGCTCGATTTCCAGAAAG  
AATTGATCCTAACCCAGTGGACTCACAAGTACCCCTCAGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203623 representing NM\_145513  
 Red=Cloning site Green=Tags(s)

MMIHGFQSSHQDFSFQWKLTASKTHIMKSADVEKLADELHMPSLPEMMFGDNLRIQHSGFGGIEFNAT  
 DALRCVNNYQGMLKVACAEWQESRTEGEHSKEVIKPYDWTYTTDYKGTLLGESLKLKVVPTTDHIDTEK  
 LKAREQIKFFEEVLLFEDELHDHGVSSLSVKIRVMPSSFFLLRRFLRIDGVLIRMNDTRLYHEADKTYM  
 LREYTSRESKIANLMHVPPSLFTEPNEISQYLPKEAVCEKLVFPERIDPNPVDQSQTPSE

TRTRPLE - GFP Tag - V

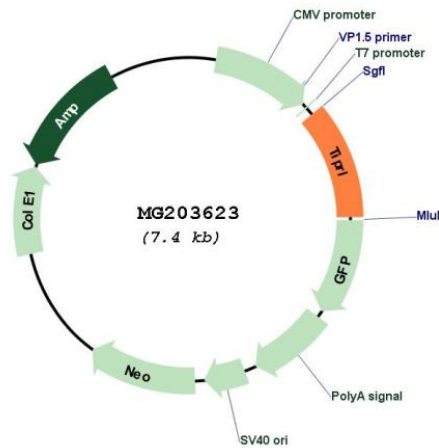
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_145513

**ORF Size:** 813 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_145513.1</a>
<b>RefSeq Size:</b>	4382 bp
<b>RefSeq ORF:</b>	816 bp
<b>Locus ID:</b>	226591
<b>UniProt ID:</b>	<a href="#">Q8BH58</a>
<b>Cytogenetics:</b>	1 H2.2
<b>Gene Summary:</b>	May be a allosteric regulator of serine/threonine-protein phosphatase 2A (PP2A). Inhibits catalytic activity of the PP2A(D) core complex in vitro. The PP2A(C):TIPRL complex does not show phosphatase activity. Acts as negative regulator of serine/threonine-protein phosphatase 4 probably by inhibiting the formation of the active PPP4C:PPP4R2 complex; the function is proposed to implicate it in DNA damage response by promoting H2AFX phosphorylated on Ser-140 (gamma-H2AFX). May play a role in the regulation of ATM/ATR signaling pathway controlling DNA replication and repair (By similarity).[UniProtKB/Swiss-Prot Function]